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(71) Applicant (for all designated States except US):
MELEXIS NV [BE/BE]; Microelectronic Integrated
Systems, Rozendaalstraat 12, B-8900 Leper (BE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): VAN DER WIEL, Ap-
olonius, Jacobus [NL/BE]; De Robianostraat 21, B-3080
Tervuren (BE).

(74) Agent: HILL, Richard; Wilson Gunn Skerrett, Charles
Street, 148/9 Great Charles Street, Birmingham B3 3HT
(GB).

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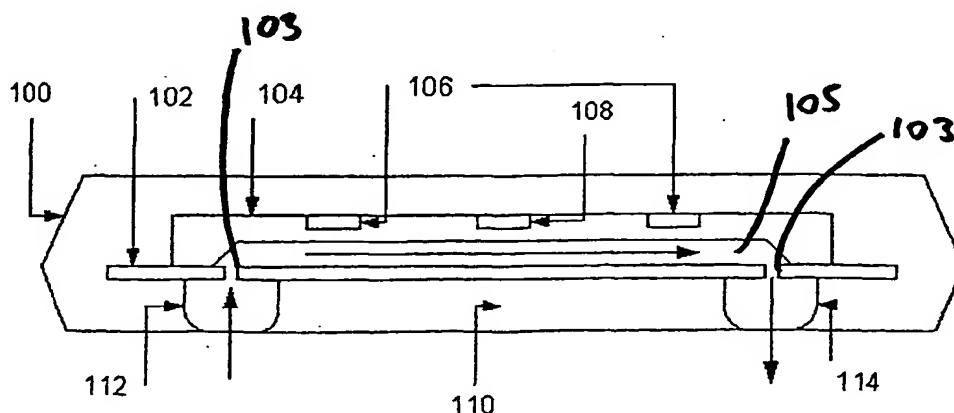
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(54) Title: CALORIMETRIC FLOW METER



(57) Abstract: An encapsulated calorimetric flow meter according to the present invention comprises an integrated circuit (104) mounted on a lead frame (102). The integrated circuit has a channel (105) provided in its lower face, the channel being aligned with two holes (103) provided in the lead frame, the holes coinciding with the ends of the channel (105). There are further slots (111) in the lead frame (102) alongside the integrated circuit to thermally isolate it from the rest of the lead frame (102), which acts as a heat sink to keep the entry and exit fluid at ambient temperature. The flow meter is manufactured by mounting the integrated circuit (104) on to a suitable lead frame (102). The assembly of integrated circuit (104) and lead frame (102) is then inverted and blobs of gel (112, 114) are then deposited onto the lead frame (102) covering the holes (103). The assembly is then inserted into a mould (100) and encapsulated within a suitable mould compound. When the assembly is ejected from the mould cavity the gel can be removed and the holes (103) and the channel (105) exposed to facilitate fluid flow into, out of and along the channel (105).

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	US 6 395 585 B2 (BRANDL MANFRED) 28 May 2002 (2002-05-28) column 1, line 6 - line 10 column 1, line 35 - line 42 column 2, line 51 - column 3, line 2 figures 1-5	1-24
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A	<p>EP 0 813 236 A (EUROP SEMICONDUCTOR ASSEMBLY E) 17 December 1997 (1997-12-17) column 3, line 43 - column 4, line 18 figures 1-4</p> <p>-----</p>	21-23

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Information on patent family members

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